150kW¹ Standby Generator Natural Gas





Briggs & Stratton° The Smart Choice

Durable backup power for businesses and luxury homes. Guard against losses due to power outages with a Briggs & Stratton* Standby Generator.



Standard Features

- UL 2200 Listed
- Rugged seven-gauge steel base and protected by an enclosure made from Galvannealed Steel
- Generators are powered by EPA Certified 1800 RPM industrial grade PSI engine
- Sound attenuated enclosures for reduced noise output
- Marinco 6A battery charger
- DSE 7310 MKII controller
- High performance, durable alternator
- Industry leading 3 year standard limited warranty.
 3 years parts, labor and travel³



| | | | | Ge | enerator Set Rating | | | |
|--------|------------------|---------|--------------------|----|-------------------------------------|------|-------------------------|-------------------------------|
| | | | | | Natural Gas 125°C Standby Rating | | | Limited Warranty ³ |
| Model | Alternator Model | Voltage | Phase ² | Hz | kW¹ / kVA | Amps | Circuit Breaker Amps | Parts, Labor, Travel |
| 080020 | ECO38-1LN/4 | 120/240 | 1 | 60 | 150 / 150 | 625 | 700 | 3 Year |
| 080021 | ECO38-1SN/4 | 120/208 | 3 | 60 | 150 / 188 | 520 | 600 | 3 Year |
| 080022 | ECO38-1SN/4 | 120/240 | 3 | 60 | 150 / 188 | 451 | 500 | 3 Year |
| 080023 | ECO38-1SN/4 | 277/480 | 3 | 60 | 150 / 188 | 225 | 250 | 3 Year |
| 080024 | ECP34-3L/4 | 347/600 | 3 | 60 | 150 / 188 | 180 | 225 | 3 Year |

¹ This generator is rated in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motors and generators).

 $^{^{2}}$ Single phase units are rated at 1.0 power factor and three phase units are rated 0.8 power factor

³ Warranty details available at www.briggsandstratton.com



Engine Specifications

| Engine | e | | | |
|---|--|--|--|--|
| Manufacturer | PSI | | | |
| Aspiration | Turbocharged Air-Cooled | | | |
| Model Type | 8.8L, Industrial Powertrain 4-Cycle | | | |
| Speed (RPM) | 1800 | | | |
| Cylinder Arrangement | V8 | | | |
| Displacement (ci / L) | 535 / 8.8 | | | |
| Bore & Stroke (in / mm) | 4.35 x 4.5 / 110.5 x 114.3 | | | |
| Compression Ratio | 10.1:1 | | | |
| Governor Type | Electronic | | | |
| Frequency Regulation Steady State | +/- 0.5% | | | |
| Frequency Regulation No-load to Full-load | Isochronous | | | |
| Air Filter Type | Dry | | | |
| Warranty | 3 Years | | | |
| Lubrication | System | | | |
| Туре | Full Pressure | | | |
| Oil Capacity (qt / L) | 8 / 7.6 | | | |
| Oil Filter (Quantity / Type) | 1 / Spin-On | | | |
| Cooling System | | | | |
| Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec) | 5021 / 21.1 | | | |
| Water Pump Type | Centrifugal | | | |
| | | | | |

| Electrical System | | | | | |
|---------------------------------------|---|---|----------|--|--|
| Ignition System | Individual Ignition Coil | | | | |
| Battery Quantity | , | | 1 | | |
| Battery Voltage (VDC) | | | 12 | | |
| Battery CCA (A) | · · · | | 925 | | |
| Battery Charging | g Alternator | | | | |
| Ground (Nega | tive/Positiv | e) | Negative | | |
| Voltage (VDC) |) | | 12 | | |
| Amperage (A) | | | 70 | | |
| Starter Motor Vo | Itage (VDC) | | 12 | | |
| | E | Exhaust System | | | |
| Exhaust Manifol | d Type | | Dry | | |
| Exhaust Flow at (cfm / m³/min) | 1178 / 33.3 | | | | |
| Exhaust Tempera | 1350 / 732 | | | | |
| Maximum Allowa | 3 / 10.2 | | | | |
| Fuel System | | | | | |
| Fuel Type | Natural Gas | | | | |
| Fuel Supply Line | 1-1/2 NPT | | | | |
| Recommended F (BTU/ft³ / MJ/m³) | 904 / 34.3 | | | | |
| Fuel Supply Pres | Fuel Supply Pressure (in H ₂ O / mbar) | | | | |
| | Fu | uel Consumption | | | |
| | Full Load | 1/2 Load | No Load | | |
| BTU/hr | 1,970,000 | 1,105,000 | 290,000 | | |
| ft³/hr | 1,970 | 1,105 | 290 | | |
| m³/hr | 55.8 | 31.3 | 8.2 | | |
| | Engir | ne Output Deratings | | | |
| Rated Temperati | ure (°F / °C) | 77 / 25 | | | |
| Rated Altitude | | 1200 ft (366 m) Above Sea Le | vel | | |
| Temperature De | rate | 1.5% for Each 10°F (5.6°C) Above Rated Temperature | | | |
| Altitude Derate | | 2.5% for Each 1000 ft (305 m) Rated Altitude | Above | | |
| Sound Rating at 7 Meters, Lowest Side | | | | | |
| No Load | | 77 dB(A) | | | |
| | Air | Induction System | | | |
| Combustion Air (cfm / m³/min) | | 364.6 / 10.33 | | | |



Additional Standard Features

Sound Enclosure

- Sound level ratings with no load: 77 dB(A)²
- Sound attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption
- · Lockable, stainless steel door latches
- · Critical grade silencer
- Steel enclosure standard with hinged doors

| Weight & Dimensions | | | | |
|---|------------------------------------|--|--|--|
| Assembled Weight (lbs / kg) | 5380 / 2440 | | | |
| Overall Dimensions (in / mm) | 135 x 52 x 86 / 3429 x 1321 x 2184 | | | |
| Packaged Weight (lbs / kg) | 5563 / 2523 | | | |
| Packaged Dimensions (in / mm) 144 x 58 x 92 / 3658 x 1473 x 2337 | | | | |
| Controller Features | | | | |

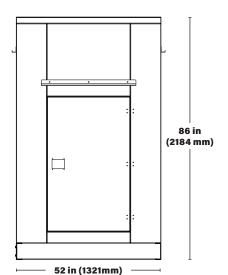
- Heated display option
- True 3 Phase generator sensing
- Power monitoring (kW, kVA, kVAR)
- Remote communication (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active
- Configurable inputs/outputs (9/8)
- · CANBus speed sensing

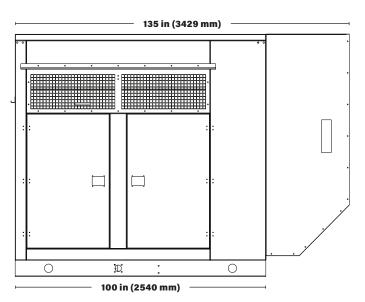
- · Configurable display languages
- · Power save mode
- · Integral PLC editor
- Flexible sender inputs
- DSE Configuration Suite PC Software
- · Configurable event log (250)
- Load switching, load shedding & dummy load outputs

| | Available Accessories |
|------|---|
| 6335 | Battery Cable Lockout, NFPA 110 Compliant |
| 6350 | Engine Communication Cable |
| 6360 | Emergency Stop Switch, NFPA 110 Compliant, NEMA 4X |
| 6361 | Emergency Stop Switch, NFPA 110 Compliant, With Cover |
| 6428 | Controller Communication Cable, USB-A to USB-B |
| 6463 | Battery Charger, NFPA 110 Compliant, DSE 9461-02 |
| 6464 | Communication Interface, DSE 890-01 |
| 6465 | Remote Annunciator, DSE 2548-01 |
| 6466 | Remote Display, DSE 2510-32 |
| 6468 | Remote Annunciator Kit, NFPA 110 Compliant, DSE 2548-01 |
| 6472 | AVR Communication Cable |

Other Features

- Alternator Protection
- · Battery Rack and Cables
- Electronic, Isochronous Governor
- Gas Fuel System (includes fuel mixer, electronic secondary gas regulator, gas solenoid valve, and flexible fuel line between the engine and the skid-mounted fuel system components)
- Integral Vibration Isolation
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature³
- Galvanneal Enclosure





¹This generator is rated in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motor and generators).

² Sound measured at 7M. Sound levels at various points around generator may be higher depending on installation parameters.

³ The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your business and home.



| Model Alternator Model | 1 Phase 080020 | 3 Phase | a Dhasa | | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Alternator Model | 000000 | | 3 Phase | 3 Phase | 3 Phase |
| | 080020 | 080021 | 080022 | 080023 | 080024 |
| Monufacturer | ECO38-1LN/4 | ECO38-1SN/4 | ECO38-1SN/4 | ECO38-1SN/4 | ECP34-3L4 |
| vianuiacturer | Mecc Alte |
| Туре | Brushless, 4-Lead | Brushless, 12-Lead | Brushless, 12-Lead | Brushless, 12-Lead | Brushless, 12-Lead |
| Frequency (Hz) | 60 | 60 | 60 | 60 | 60 |
| Phase | 1 | 3 | 3 | 3 | 3 |
| Alternator Configuration | - | Wye | Delta | Wye | Wye |
| Exciter Type | Auxiliary Winding |
| Number of Poles | 4 | 4 | 4 | 4 | 4 |
| Voltage Regulator | Digital, 1-phase sensing |
| Insulation Rating | Class H |
| Designed Temperature Rise Limit | 125°C | 125°C | 125°C | 125°C | 125°C |
| Bearing (Quantity / Type) | 1 / Sealed |
| Coupling | Flexible Disk |
| Amortisseur Windings | Full | Full | Full | Full | Full |
| Voltage Regulation, NL to FL | +/- 1.0% | +/- 1.0% | +/- 1.0% | +/- 1.0% | +/- 1.0% |
| One Step Load Acceptance | 100% of Rating |
| ouotumou onort onout | 300% of rated current for 10 seconds |
| Total Harmonic Distortion (THD), NL to FL | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.0 |

- 2/3rds winding pitch to eliminate triplen harmonics with the voltage waveform
- Manufactured according to the following standards: UL1004, NEMA MG1, IEC 60034-1

Support every step of the way

Need help? Just call 800-759-2744

Our technical support team is trained to answer questions on our generators, transfer switches and accessories.

Call today for a FREE estimate! 800-743-4115

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Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice.

Not for Prime Power or use where standby systems are legally required, for serious life safety or health hazards, or where lack of power hampers rescue of fire-fighting operations.

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